

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9 (canceled)

Claim 10 (currently amended): A method of manufacturing a welded pipe formed of corrosion/erosion resistant stainless steel, the method comprising the steps of:

providing as a starting material a selected one of a finished plate or coil, the selected plate or coil being formed of a corrosion/erosion resistant metal which is itself selected from the group consisting of stainless steels of the chromium, molybdenum and carbon families and mixtures thereof;

passing the starting material through a continuous high speed forming mill to produce a formed body having a longitudinal seam region and a wall thickness;

welding the formed body along the longitudinal seam region ~~using a high frequency electric resistance welding process~~ to achieve an autogenous electric resistance weld with induction high frequency welder to thereby produce a welded pipe;

wherein the starting material is selected from a corrosion/erosion resistant stainless steel characterized as having less than about 0.080% maximum content by weight carbon and from about 10.5 to 14% content by weight chromium; and

wherein the corrosion/erosion resistant stainless steel is a low carbon dual phase (ferrite plus martensite) stainless steel.

Claims 11 and 12 (canceled)

Claim 13 (original): The method of claim 10, wherein a weld is produced along the longitudinal seam region characterized by complete weld penetration being achieved through the wall thickness of the formed body without the use of filler metal.

Claim 14 (original): The method of claim 13, wherein the weld pipe is further characterized as having an oxide free weld bond line along the longitudinal seam region.

Claim 15 (canceled)

Claim 16 (previously presented): The method of claim 10, wherein the corrosion/erosion resistant stainless steel is further characterized as having a chemical balance determined by the Kaltenhauser Factor in the range from 8 to 10.7.

Claims 17-20 (canceled)

Claim 21 (original): The method of claim 10, wherein the pipe body has a finished outside diameter greater than about 2 to 6 inches.

Claim 22 (original): The method of claim 21, wherein the pipe body has a finished outside diameter greater than about 12 inches.

Claim 23 (original): The method of claim 10, wherein the welding process results in a soft low carbon martensitic heat affected zone of the pipe, the method further comprising the steps of:

optional post induction or gas fired heating of the heat affected zone in a temper heat treatment step, the temper heat treatment of the soft low carbon martensitic heat affected zone of the pipe providing a resulting improved weld ductility along the longitudinal seam region; and

performing a full body inspection and/or a weld zone inspection upon the finished pipe.

Claim 24 (original): The method of claim 23, wherein the inspection is performed by means of an ultrasonic inspection and/or an electromagnetic inspection process to insure that the pipe body and heat affected zone are free of specification defects.

Claim 25 (original): The method of claim 10, wherein the resulting pipe has a given maximum outer diameter, the maximum outer diameter being limited only by the maximum size of continuous roll forming mill.

Claim 26 (new) A method of manufacturing a welded pipe formed of corrosion/erosion resistant stainless steel, the method comprising the steps of:

providing as a starting material a selected one of a finished plate or coil, the selected plate or coil being formed of a corrosion/erosion resistant metal which is itself selected from the group consisting of stainless steels of the chromium, molybdenum and carbon families and mixtures thereof;

passing the starting material through a continuous high speed forming mill to produce a formed body having a longitudinal seam region and a wall thickness; and

welding the formed body along the longitudinal seam region using a high frequency induction welding process to thereby produce a welded pipe;

wherein the starting material is selected from a corrosion/erosion resistant stainless steel characterized as having less than about 0.080% maximum content by weight carbon and from about 10.5 to 14% content by weight chromium;

wherein the corrosion/erosion resistant stainless steel is a low carbon dual phase (ferrite plus martensite) stainless steel.

Claim 27 (new) A method of manufacturing a welded pipe formed of corrosion/erosion resistant stainless steel, the method comprising the steps of:

providing as a starting material a selected one of a finished plate or coil, the selected plate or coil being formed of a corrosion/erosion resistant metal which is itself selected from the group consisting of stainless steels of the chromium, molybdenum and carbon families and mixtures thereof;

passing the starting material through a continuous high speed forming mill to produce a formed body having a longitudinal seam region and a wall thickness; and

welding the formed body along the longitudinal seam region using a high frequency induction welding process to thereby produce a welded pipe;

wherein the starting material is selected from a corrosion/erosion resistant stainless steel characterized as having less than about 0.080% maximum content by weight carbon and from about 10.5 to 14% content by weight chromium;

wherein the corrosion/erosion resistant stainless steel is a low carbon dual phase (ferrite plus martensite) stainless steel;

wherein the corrosion/erosion resistant stainless steel is further characterize as having a chemical balance determined by the Kaltenhauser Factor in the range from 8 to 10.7.

Claim 28 (new) A method of manufacturing a welded pipe formed of corrosion/erosion resistant stainless steel, the method comprising the steps of:

providing as a starting material a selected one of a finished plate or coil, the selected plate or coil being formed of a corrosion/erosion resistant metal which is itself selected from the group consisting of stainless steels of the chromium, molybdenum and carbon families and mixtures thereof;

passing the starting material through a continuous high speed forming mill to produce a formed body having a longitudinal seam region and a wall thickness; and

welding the formed body along the longitudinal seam region using a high frequency induction welding process to thereby produce a welded pipe;

wherein the starting material is selected from a corrosion/erosion resistant stainless steel characterized as having less than about 0.080% maximum content by weight carbon and from about 10.5 to 14% content by weight chromium;

wherein the corrosion/erosion resistant stainless steel is a low carbon dual phase stainless steel with 10.5 to 14% chromium content by weight.